Before Core Logging – A few key points

General

- Please submit a sample request and do so ahead of time!
- Make sure that the cores equilibrated to room temperature (recommendation: 5 h for IODP split liner; 10 h for GeoB split liner) – some parameters are T sensitive!
- Make sure that the core is positioned horizontally on the track.
- Split core halves: prepare the surface as flat as possible, remove mold. However, please keep in mind that you are dealing with archive halves in most cases!
- Be aware of that endcaps influence your measurements and adapt your procedure (see poster at the MSCL).
- Make sure to pick up the processed core sections from the end of the track (they will fall down otherwise)!

Linescanning

- Lights need to warm up and therefore you need to switch them on **at least 1h** before you aim to start acquiring data (first with the calibration procedure).
- Calibrate before you start measuring cores.
- To avoid reflections ensure that the surface is as dry as possible (careful preparation, e.g. with tissues).
- Support plate is available to allow continuous advance of the core sections on the track.
- Check quality of each image immediately after acquisition; it might be needed to calibrate twice a day.

GRA density

- Check if the lid at the Cs source container is open and latch it at the designated position.
- Calibrate once a day (first thing before you start).
- Check processed data immediately after acquisition (range within expected values?).

P-wave

- Make sure that there is good contact between transducers and core, where needed use water to improve contact (but do not flood the system).
- Check the sliding of both transducers regularly, if they got stuck: contact MARUM operator.
- Check the core flow, especially at the section breaks.
- Please always keep an eye on the *P*-wave amplitude.
- Check processed *P*-wave velocity data immediately after acquisition (range within expected values?).

Magnetic susceptibility

- Please keep all metal pieces away from the sensor (watches, jewellery, belts, shoes, cans), these might disturb your measurement.
- Make sure that the point sensor is actually reaching the core surface when measuring.

Color reflectance

- Calibrate the spectrophotometer at the beginning (before running any core).
- Use suitable foil to cover the core.
- Make sure that the surface is dry and clean.